

BASMAA Projects – FY 18-19

	Project (MRP provision) (# projects)	Project Budget ~	SMCWPPP Share
	Board of Directors (2)		
1	Pesticides Toxicity - Regulatory Modernization (C.9.f)	\$32,000	\$3,992
2	Planning Conference (GI Plans, SRPs, RAAs) (not applicable)	\$30,000*	\$3,742
	Monitoring / POCs Committee (8)		
3	On-Call Services for Maintenance of RMC Monitoring Database (C.8.b/h)	\$10,000	\$1,247
4	RMC Database QA/QC Tool – POC Data (C.8.f)	\$3,000	\$374
5	Creek Status Monitoring-Related Coordination (RMC Task 3c) (C.8.d/e/g)	\$14,000	\$1,746
6	Regional SSID Project Work Plan (C.8.e)	\$20,000	\$2,495
7	POC Monitoring for Source ID and Mgt. Action Effectiveness (C.8.f / C.12.e)	\$40,000	\$4,989
8	Redesign of Bioassessment Monitoring Program (C.8.h)	\$50,000	\$6,237
9	Refined Source Control Load Reduction Accounting for RAA (C.11.d / C.12.d)	\$100,000	\$12,474
10	Managing PCBs-Containing Materials and Wastes during Building Demolition - Phase I: Developing an Implementation Framework, Guidance Materials, and Tools for Permittees (C.12.f)	\$42,258	\$5,271
	Public Information / Participation Committee (1)		
11	IPM Partnership Program XX (Our Water, Our World) (C.9.e.ii.(1))	\$40,000	\$4,989
	Trash Committee (1)		
12	Preliminary and Final Reports on Trash Receiving Water Monitoring Program Plan and Related Tasks (C.10.b.v)	\$60,000	\$7,484
	Totals	\$441,258	\$55,040

~ Tentatively adopted project list / budget subject to final approval expected June 28, 2018.

* Pending or Placeholder budget subject to revision based on final scoping.



B A S M A A

Project Profile

Project Name: Pesticides Toxicity - Regulatory Modernization

Description: The purpose of this project (in the form of a contribution to CASQA) is to:

- Convince California and Federal pesticide regulators to take additional actions as necessary to end pyrethroid-related toxicity in waters and sediments and to prevent future pesticide-related toxicity from emerging products like fipronil, imidacloprid, and indoxacarb.
- Complete the process of changing the way pesticide regulatory processes are implemented to ensure that pesticide regulators prevent toxicity when pesticides are registered or periodically reviewed.
- Oppose California and Federal water regulatory actions that make permittees rather than pesticide regulators responsible for pesticide-caused water pollution.

The attached “End Goals” document from the Pesticides Subcommittee provides additional detail on the purpose and indicators of success for this project. Activities specific to 2019 are described below.

Background

Pyrethroids and fipronil are present at problem levels in urban waters throughout California. Treating urban runoff to achieve compliance is infeasible and requirements to do so could cost billions of dollars statewide. State law precludes local regulation of pesticide sales or use. Educational efforts, while beneficial for other reasons, have proven ineffective in reducing pesticide levels in urban runoff.

Since 2004, CASQA has pursued a strategy, along with key water board staff, to influence state and federal agencies to improve regulation of pesticides as the long-term solution to mitigate and prevent water quality problems in urban areas. From 2003-2010 most activities were paid for by state grant funds (CASQA funded only CASQA-specific items). Due to changes in State Water Board grants—and after extensive research into other options—the funding of this effort was transitioned to dischargers. Although BASMAA and individual permittees provide significant levels of funding, CASQA’s continued support for this effort is crucial, particularly in recognition that the project outcomes have statewide benefit. At this point, maintaining the significant momentum we have obtained in recent years will maximize our chance of achieving our end goals in a couple of years.

Scope

Based on our success with our 2013 & 2014 focus on DPR, the plan for 2019 is to continue to focus more on US EPA Office of Pesticide Program (OPP), where we have actions we need to push forward (OPP/OW common effects assessment methodology, more accurate urban modeling, other process problems), and where we expect actions on our highest priority pesticides. Some of this work will take advantage of DPR tools developed by DPR. A second focus for 2018 is Water Board statewide pesticides planning leading to an envisioned statewide Plan amendment (STORMS Project 6a), which we expect to be completed in 2018.

Key activities are outlined in the bullets below.

- *Continue collaboration with DPR to address near-term regulatory concerns, while seeking US EPA OPP and OW actions to reduce inconsistencies:*
 - Obtain DPR action on fipronil water pollution.
 - Ensure DPR enforces mitigation measures for pyrethroids and adopts additional measures if necessary.
 - Ensure the state conducts surveillance monitoring to evaluate pyrethroids (and fipronil) mitigation effectiveness.
 - Encourage EPA to develop capacity to implement pyrethroids and fipronil mitigation measures, in case necessary mitigation cannot be implemented entirely by DPR.
- *Seek long-term changes in the pesticide regulatory structure:*
 - Seek procedure changes such that EPA and DPR avoid approving new pesticides that cause urban water pollution.
 - Encourage EPA to develop robust urban surface water risk assessment procedures for pesticide reviews.
 - Focus on priority pesticides, particularly the pyrethroid family, fipronil, and imidacloprid, for which there will be public input opportunities.
 - Focus on completing effort to improve OPP urban runoff modeling procedures and renew efforts regarding consistency with OW regarding effects assessment and risk assessment timeframes.
 - Work toward obtaining a statewide management approach for pesticides that is adopted by the State Water Board, and formally recognizes the need to rely on DPR and OPP authority as the primary means to prevent and mitigate water quality impacts by pesticides.
 - Seek restructuring of California’s urban surface water pesticides monitoring to increase its effectiveness and improve coordination.

FY: 18-19

MRP reference: C.9.f (MRP 2.0)

Committee task ID: Not applicable

Overseer 1: Board of Directors

Overseer 2: CASQA Pesticides Subcommittee¹

Budget: \$32,000 (Others – CASQA (\$75,000-\$100,000); Sacramento (\$17,000); Santa Maria (\$2,000)) Total~\$150K

Funding source(s): All BASMAA member programs (ACCWP, CCCWP, FSURMP, MCSTOPPP, NCSPPP, SMCWPPP, SCVURPPP, SCWA, VSFCDD) plus others

Contracting Agency(s): CASQA

Contractor(s): TDC; Armand Ruby Consulting; Stephanie Hughes, Tammy Qualls

One-time _____ multi-FY X

Compliance date: Ongoing

Profile last updated on: 10/25/17

Project Officer: Geoff Brosseau

Status: CASQA Pesticides Subcommittee review

Deliverable(s):

Written comment letters

Technical reports

Talking points for letters and meetings

Regulatory updates

Regulatory action plans

Annual report

Due/completed

Ongoing

Ongoing

Ongoing

Ongoing

Monthly

July 2019

¹ The CASQA Pesticides Subcommittee manages BASMAA’s and others’ contributions to CASQA on a day-to-day basis



B A S M A A

Project Concept

2018 Board of Directors Priorities addressed: Ongoing Maintenance of Regional Monitoring Database

Title: On-call Services for Maintenance of RMC Monitoring Database

Purpose: To provide ongoing information management services related to the RMC Monitoring Database on an as needed basis to assist in compliance with several C.8 provisions in MRP 2.0.

Background: In 2010, Regional Project RMC 3e developed the RMC Monitoring Database to store and manage SWAMP-comparable data collected in compliance with Provision C.8.c of MRP 1.0 (now Provision C.8.d of MRP 2.0). Data is entered and exported using Excel Templates that contain standardized nomenclature or look up lists. Periodically, the sampling protocols change and/or the database users desire new reporting products that require changes to the RMC database and Excel Import/Export Templates. Furthermore, RMC database users often have questions about the database and how to use the Excel Templates. Regional Project RMC 3e included budget to provide ongoing, as-needed database management, communications, and technical assistance to the RMC; however, the budget has since been exhausted.

As an ongoing related task (Task RMC 3g), funded outside of BASMAA by SCVURPPP and SMCWPPP at a level comparable to Regional Project RMC 3c (\$14,000 annually), EOA conducts several in-kind services. These include: close technical database assistance to RMC programs, annual compilation of RMC program Creek Status data into one database, serving as the link between the RMC and the CEDEN Regional data node (SFEI), and management of the Creek Status Probabilistic Monitoring design and Site Evaluation process.

In FY 15-16, Regional Project RMC Task 6a expanded the database to store POC Monitoring data collected per Provision C.8.e of MRP 1.0 and C.8.f of MRP 2.0. SCVURPPP's / SMCWPPP's in-kind contribution during FY15-16 significantly exceeded \$14,000 due to an increase in technical database assistance needed by RMC programs and a substantial expansion of the database to include POC monitoring data.

This ongoing project was funded at the same level in FY 16-17 and FY 17-18.

Scope: This project will provide a timely and efficient means of making updates to the RMC Monitoring Database and related Excel Templates and providing technical assistance to RMC database users, on an ongoing as-needed basis and as authorized by the BASMAA Project Manager. Work will be conducted by EOA and Dan Stern Database Systems. Example tasks are listed below and will be determined by the MPC:

Project Concept: On-call Services for Maintenance of RMC Monitoring Database

- Update the database and Excel Import/Export Templates to be consistent with the SWAMP on-line data checker, as needed.
- Respond to questions from RMC database users about the new POC monitoring element added through RMC Task 6a.
- Provide ongoing technical programming assistance for RMC database users, as needed. This task includes technical work by Dan Stern Database Systems and oversight by EOA.
- Conduct ongoing testing of the RMC database and identify future improvements.
- This scope does not include the ongoing Creek Status Monitoring services that performed by EOA and are funded by SCVURPPP and SMCWPPP for Task RMC 3g.

Products: Ongoing as-needed services, within provided budget.

Schedule: July 2018 – June 2019 (ongoing)

Cost (estimate): \$10,000

Project partners, if any: none

Implementer(s): Committee(s): MPC Consultants: EOA (\$5,000) and Dan Stern Database Systems (\$5,000)

[Check/list as appropriate] Member _____ Other _____

Selection Process(es): [¹ If proposed implementer would be a consultant(s) to BASMAA, check method(s) for identifying best candidate(s) to recommend to the Board of Directors. See Policy and Procedure: *Consultant Selection and Contracting* for more information]

____ Executive Director Discretion Sole Source ____ Request for Qualifications

____ Request for Proposal ____ Interview

The MPC recommends continuing to contract with EOA and Dan Stern Database Systems to perform this work. The EOA/Dan Stern Database Systems team provides the unique experience of already having performed this project in FY 2016/17 and of having created, updated, and managed the RMC Monitoring Database.

Proposer: MPC _____ **Date:** 10/3/17 _____



B A S M A A

Project Concept

2018 Board of Directors Priorities addressed:

- Pollutants of Concern (POC) Monitoring for Source Identification and Management Action Effectiveness (C.8.f.)

Title: RMC Database QA/QC Tool – POC Data

Purpose: To identify and fix various problems that had not been identified at the time the tool was distributed.

Background: The Data Checker Tool was developed in FY 17-18 for pollutants of concern (POC) data and distributed to the various RMC participants after being tested with available data. When some of the participants used the tool, several problems were identified. The severest of these was that the tool did not work at all with the data of Santa Clara & San Mateo Counties. Other smaller scale problems were identified by other participants.

Scope: Tasks include:

- Identify problems;
- Troubleshoot and fix these problems;
- Document the troubleshooting process and its results; and
- Update the tool documentation to reflect any changes made to the tool, if necessary.

Products:

- New version of the QA/QC Tool for POC data;
- Documentation of identified problems and fixes; and
- Updated tool documentation, if necessary.

Schedule: July – August 2018: Initial bugs identification / fixes; On-call: Subsequent bugs

Cost (estimate): \$3,000

Project partners, if any: None

Implementer(s): Committee(s) Monitoring / POC _____ Consultant KLI (Peter Wilde) _____

[Check/list as appropriate] Member _____ Other _____

Selection Process(es): [If proposed implementer would be a consultant(s) to BASMAA, check method(s) for identifying best candidate(s) to recommend to the Board of Directors. See Policy and Procedure: *Consultant Selection and Contracting* for more information]

Executive Director Discretion Sole Source Request for Qualifications

Request for Proposal Interview

Proposer: Monitoring / POCs Committee _____ **Date:** 5/23/18 _____



B A S M A A

Project Concept

2018 Board of Directors Priorities addressed: Creek Status Monitoring (C.8.d), Stressor-Source Identification (SSID) Projects (C.8.e) and Pesticides and Toxicity Monitoring (C.8.g)

Title: Creek Status Monitoring-Related Coordination (RMC Task 3c)

Purpose: Assist BASMAA Regional Monitoring Coalition (RMC) participants in collaboration and consistent implementation of MRP monitoring requirements for Creek Status Monitoring, and two related provisions.

Background: The Permittees identified a need to provide coordination among stormwater programs and Regional Water Board staff, from the initiation of Creek Status Monitoring in FY 2011-12. Ongoing funding for Armand Ruby to fill this role was provided through BASMAA Phase I programs through FY 2012-13. From FY13-15 through FY17-18, project budget and funding support were based on the following agreements by the MPC:

1. Related regional projects RMC 3a (RMC Probabilistic Design Information Management and Quality Assurance) and general support for 3g (Creek Status Monitoring Information Management) will not have proposed regional budgets but ongoing core support activities that were originally proposed as tasks for these regional projects will be funded and contracted for by SCVURPPP and/or SMCWPPP. A preliminary list of these activities includes:
 - Manage the Creek Status Monitoring Probabilistic Master Draw
 - Provide annual training and update of guidance for evaluation of Probabilistic sites, and maintain Site Evaluation tracking data
 - Facilitate guidance and technical assistance to program staff and monitoring consultants for Creek Status and Pesticide-Toxicity uses of the RMC Information Management System¹.
2. The other programs (ACCWP, CCCWP, FSURP, and VSFCDD) supported funding RMC 3c via BASMAA contracting, considered to be equivalent value to the activities sponsored by SCVURPPP and SMCWPPP per above.

Scope: Potential tasks include:

1. Participate in and Assist with RMC Meetings (typically 4-5 per year)
2. Participate in or Report at MPC Meetings*
3. Track Required Data Submittals and support regional reporting*
4. Provide Guidance on Data/QC Issues*
5. Provide General On-Call Assistance*

*if authorized by the RMC Work Group Chair, subject to need and available budget.

Coordination and oversight for all of the above work is to be provided by RMC participants through discussions and meetings of the RMC Work Group.

¹ A separate BASMAA project, On-Call Services for Maintenance of RMC Monitoring Database (C.8.b/h), provides support for the extension of the RMC Information Management System to address Pollutants of Concern Monitoring.

Project Concept: Creek Status Monitoring-Related Coordination (RMC Task 3c)

Products: Meeting agendas, other deliverables TBD by RMC Work Group Chair and members

Schedule: July 2018-June 2019 ongoing; specific deliverable dates subject to agreement of RMC Work Group Chair and members

Cost (estimate): \$14,000

Project partners, if any: None.

Implementer(s): Committee(s) RMC Work Group Consultant Armand Ruby Consulting
[Check/list as appropriate] Member _____ Other _____

Selection Process(es): [¹ If proposed implementer would be a consultant(s) to BASMAA, check method(s) for identifying best candidate(s) to recommend to the Board of Directors. See Policy and Procedure: *Consultant Selection and Contracting* for more information]

____ Executive Director Discretion Sole Source ____ Request for Qualifications
____ Request for Proposal ____ Interview

Program representatives in the RMC and MPC recommend continuing sole source selection of Armand Ruby Consulting, due to:

- BASMAA's listing of this firm as a pre-qualified consultant in the category of Environmental Monitoring
- Armand Ruby's unique qualifications and experience from filling this role in the past, which provide continuity
- The relatively small annual budget for this project

Proposer: MPC [or subset of program reps] _____ **Date:** 10/3/17 Draft _____



B A S M A A

Project Concept

2018 Board of Directors Priorities addressed: MRP Provision C.8.e (Stressor/Source Identification (SSID) Projects)

Title: Regional SSID Project Work Plan and Implementation

Purpose: Assist BASMAA Regional Monitoring Coalition (RMC) participants by developing a work plan for a regional Stressor/Source Identification (SSID) Project (C.8.e) in FY 2018/19 and implementing the work plan in FY 2019/20, in compliance with MRP Provision C.8.e.

Background: Under MRP Provision C.8.e, the Permittees must take follow-up actions when certain monitoring results trigger a candidate Stressor Source Identification Project as indicated within Provisions C.8.d, C.8.g, and C.8.f. A list of monitoring results exceeding thresholds is maintained by the RMC participants, from which the SSID projects can be selected, based on criteria in MRP Provision C.8.e.ii. Provision C.8.e.ii.(1) requires Permittees who conduct SSID projects through a regional collaborative (such as the BASMAA RMC) to collectively initiate a minimum of eight new SSID projects (minimum of one for toxicity) during the Permit term. Most of those projects are conducted by individual Programs addressing local needs. RMC programs have agreed that the distribution of the eight required SSID projects will be as follows:

- 2 each: Santa Clara and Alameda counties
- 1 each: San Mateo and Contra Costa counties
- 1 jointly: Fairfield/Suisun and Vallejo
- 1 regionally: All MRP counties

The regional SSID project work plan will need to be submitted to the Water Board by March 30, 2019 and completed by the end of the MRP term (i.e., December 2020). Development of the work plan would occur during the first half of FY 2018/19. Implementation of the work plan would occur during FY 2019/20. This timeline is consistent with work plan submittal deadlines required by MRP Provision C.8.e. and with data needs for Reasonable Assurance Analyses (RAA), also required by the MRP.

Past studies in the region have suggested that spills of PCBs from electrical utility equipment could be a significant source of this pollutant into municipal separate storm sewer systems (MS4s). Therefore, the BASMAA Monitoring and Pollutants of Concern (MPC) Committee identified a need to develop and implement a regional SSID work plan to further understand the magnitude and extent of this potential PCBs source, and identify controls (if necessary) that could be put into place to reduce the water quality impacts of this source. The need for this SSID project is further based on several factors, including:

- State and federal regulatory levels for reporting and clean-up of PCB spills are higher than the PCB levels needed to comply with the PCBs TMDL requirements which are implemented through MPR Provision C.12. The differences create missed opportunities for tracking and accounting for PCBs spills and clean-ups via the MRP.
- A sound and transparent clean-up protocol for PCBs spills from electrical utilities and associated equipment has not been clearly identified.
- Permittees have no jurisdiction over many large electrical utilities and therefore no control over the clean-up of PCB spills.

SSID projects are intended to be oriented toward taking action(s) to alleviate stressors and reduce sources of pollutants. This project would address the objectives set forth in the MRP and provide valuable information for potentially large-scale, future stormwater management actions. The MPC Committee is hopeful that management actions developed as a result of this SSID project will result in significant PCBs load reductions.

Based on prior communications between Contra Costa Clean Water Program (CCCWP) staff and SF Bay Water Board staff, it is anticipated that Water Board staff will support this regional SSID project topic (i.e., PCBs as a categorical source from electrical utilities). Furthermore, Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP) staff is currently working on a document that will provide background for the regional SSID project. Review of the SCVURPPP document by the MPC Committee will likely occur in May and June. Although the exact details of this SSID project are still uncertain, the project will consist of the following tasks.

FY 2018/19 Scope:

Develop a work plan for a regional SSID project that would satisfy MRP provision C.8.e.iii.(1) and could include:

1. Develop preliminary conceptual estimates of current PCBs loadings from electrical utility equipment.
2. Develop one draft and one final letter (to be issued on BASMAA letterhead) to SF Bay Water Board requesting that they compel electrical utilities in the Bay Area to provide specific information about PCBs spills, equipment replacement programs, and clean-up protocols.
3. Conduct a brief evaluation of information received from electrical utilities via the SF Bay Water Board request for information to help scope the work plan.
4. Prepare one draft and one final work plan that identifies the SSID approach and analyses that will be conducted via the regional project.
5. If warranted, submit categorical source referral to SFBRWQCB. Work with BASMAA partners to determine if this is the correct approach. (This may be shifted to the FY 2019/20 Scope.)
6. Prepare a summary of the regional SSID project for inclusion in the Regional SSID Report that is required by Provision C.8.e.ii.(1) and that would be submitted with each Permittee's Water Year 2019 Urban Creeks Monitoring Report.
7. Coordinate with Project Officer and MPC to determine work plan details.

Products: Letter to SF Bay Water Board. SSID Study Work Plan. SSID project summary.

Schedule: July 2018 – March 2019

Cost (estimate): \$20,000

FY 2019/20 Scope:

Implement the SSID project work plan developed in FY 2018/19. Details of the SSID project work plan have yet to be determined; however, it is anticipated that the work plan will include the following elements:

1. Review, tabulate, and analyze information provided by electrical utility companies as a result of the SF bay Water Board’s request for information form electrical utilities.
2. Improve estimates of current PCBs loadings from electrical utility equipment based on information submitted.
3. Develop/clarify PCBs spill and clean-up reporting requirement language that the SF Bay Water Board could impose on electrical utilities.
4. Develop improved PCBs clean-up protocol(s) that would reduce the discharge of PCBs to the MS4.
5. Develop methodologies to account for PCB load reductions from this source via new reporting and clean-up protocols.
6. Prepare a SSID Project Report describing the work conducted, new management actions to be implemented, and next steps.
7. Prepare a summary of the regional SSID project for inclusion in the Regional SSID Report that is required by Provision C.8.e.ii.(1) and that would be submitted with each Permittee’s Water Year 2020 Urban Creeks Monitoring Report.

Products: SSID Project Report. PCBs load reduction accounting method for electrical utilities. SSID Project summary.

Schedule: July 2018-June 2020

Cost (estimate): \$75,000

Project partners, if any: None.

Implementer(s): Monitoring / Pollutants of Concern (MPC) Committee
[Check/list as appropriate] Member _____ Other _____

Selection Process(es): [If proposed implementer would be a consultant(s) to BASMAA, check method(s) for identifying best candidate(s) to recommend to the Board of Directors. See Policy and Procedure: *Consultant Selection and Contracting* for more information]

____ Executive Director Discretion ____ Sole Source ____ Request for Qualifications

Project Concept

Regional SSID Project Work Plan and Implementation

Request for Proposal Interview

Proposer: MPC _____ **Date:** 5/23/18 Draft _____



B A S M A A

Project Concept

2018 Board of Directors Priorities addressed:

- Pollutants of Concern (POC) Monitoring for Source Identification and Management Action Effectiveness (C.8.f.)
- Evaluate PCBs Presence in Caulks/Sealants in Storm Drain and Roadway Infrastructure in Public Rights-of-Way (C.12.e.)

Title: POC Monitoring for Source Identification and Management Action Effectiveness

Purpose: The purpose of this regional project is to address two priority needs as follows:

Development and implementation of a monitoring design and study addressing: 1) Pollutants of Concern (POC) Monitoring Priority #1 “Source Identification” focused on evaluating PCBs presence in caulks/sealants used in storm drain or roadway infrastructure in public rights-of-way consistent with Provision C.12.e.; and, 2) POC Monitoring Priority #3 “Management Action Effectiveness” focused on monitoring the effectiveness of specific management actions in reducing or avoiding mercury and PCBs in MS4 discharges.

Background:

Provision C.8.f. requires that POC monitoring be directed towards addressing the following five priority management information needs:

1. Source Identification - identifying which sources or watershed source areas provide the greatest opportunities for reductions of POCs in urban stormwater runoff;
2. Contributions to Bay Impairment - identifying which watershed source areas contribute most to the impairment of San Francisco Bay beneficial uses (due to source intensity and sensitivity of discharge location);
3. Management Action Effectiveness - providing support for planning future management actions or evaluating the effectiveness or impacts of existing management actions;
4. Loads and Status - providing information on POC loads, concentrations, and presence in local tributaries or urban stormwater discharges; and
5. Trends - evaluating trends in POC loading to the Bay and POC concentrations in urban stormwater discharges or local tributaries over time.

The focus of this regional project is on development and implementation of a monitoring design and study addressing monitoring priorities #1 and #3 above as outlined below:

Monitoring Priority #1 “Source Identification”

Provision C.8.f outlines the following monitoring methods to identify watershed sources of POCs:

- Collection and analysis of POCs on sediments in urban stormwater runoff that are transported through MS4s or receiving waters during stormwater runoff events;
- Collection and analysis of POCs on bedded sediments deposited in MS4s or receiving waters;
- Collection and analysis of POCs in stormwater runoff or bedded sediments on source area properties (e.g. private property); or,
- Other monitoring methods designed to identify specific sources or uses of POCs (e.g., caulk in roadways or building materials) or watershed source areas.

Consistent with monitoring priority #1, Provision C.12.e. requires Permittees to “Evaluate PCBs Presence in Caulks/Sealants Used in Storm Drain or Roadway Infrastructure in Public Rights-of-Way” by collecting samples of caulk and other sealants used in storm drains and between concrete curbs and street pavement. At least 20 composite samples should be collected throughout the area covered by the MRP 2.0, focusing on structures installed or rehabilitated during the 1970’s when PCBs were most likely present in the caulks and sealants.

This evaluation of PCBs presence in caulk/sealants in the storm drain and roadway infrastructure consistent with Provision C.12.e.ii partially addresses monitoring priority #1. The monitoring design for this work would be coordinated and included in the monitoring design addressing monitoring priority #3 (discussed below). The monitoring design documents should be finalized by April 2017 to instruct field sampling to be initiated in Fiscal Year 2017/18. Permittees must report on the results of the sampling in the 2018 Annual Report.

Monitoring Priority #3 “Management Action Effectiveness”

Monitoring priority #3 is intended to provide support for future or existing management actions. Monitoring methods include those described for monitoring priority #1 above with a focus on monitoring the effectiveness of specific management actions in reducing or avoiding POCs in MS4 discharges. Specifically, Provision C.8.f requires each Program to collect at least eight (8) samples for monitoring priority #3 by Year 4 of the permit (2019). This regional project would support the development and implementation of a regional monitoring design and study that would coordinate and focus this monitoring effort to gather data needed to support Provisions C.11 (mercury) and C.12 (PCBs) load reduction accounting / Reasonable Assurance Analysis (RAA) needs. Potential data gaps that could be addressed via a coordinated monitoring study design may include:

- Mercury/PCBs removal in treatment control measures that were or will be constructed as part of the Clean Watersheds for a Clean Bay (CW4CB) grant project. Some of the pilot projects that were not constructed in time for monitoring as part of CW4CB grant include treatment control measures that may be desirable for green infrastructure (GI) retrofit (e.g., permeable pavement over Silva Cells) and mercury and PCBs removal data is needed for these types of treatment measures. In addition, more data could be

collected on the projects that were monitored (mostly green street bioretention-type retrofit projects, but also full trash capture devices) to bolster the mercury and PCBs removal assumptions that will be used for the load reduction accounting / RAA.

- Mercury and PCBs load reductions associated with managing illegal dumping or other miscellaneous control measures.

These and other data gaps will become more evident as the Interim Accounting Report is finalized; the CW4CB Final Report is drafted, with input from the CW4CB Technical Advisory Committee; and, when BASMAA begins to formulate an approach to meeting the MRP requirements for the RAA in FY 16-17. This is not a final list of data needs and the monitoring study design will be directed by the BASMAA Monitoring and Pollutants of Concern Committee (MPC) and Board of Directors (BOD) based on technical considerations and policy decisions. The monitoring study design will be used to conduct sampling in WY 2018.

Scope of Work:

A preliminary scope of work follows. Consultant would provide drafts of all major project documents to BASMAA for review and comment and then address the comments.

Phase I – Development of Monitoring Study Design, and Cost Estimate for Associated Field Monitoring and Laboratory Analysis

- **Task 1.** Consultant would prepare a draft and final monitoring study design addressing the monitoring needs and goals outlined above for monitoring priorities #1 and #3. The monitoring study design would describe the general objectives and rationale for sampling design consistent with direction from the BASMAA MPC and BOD. The consultant should review readily available relevant reports and other information (e.g., regarding types of materials and locations where PCBs have been found historically in infrastructure) to inform the portion of the study design addressing PCBs in caulks/sealants.
- **Task 2.** Consultant would develop a draft and final Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP) that reflect the overall goals and objectives of the monitoring study design and are consistent with the following:

SAP will describe the general objectives and a rationale for sampling design consistent with direction from the MPC and BASMAA Project Manager. Categories of sampling locations will be identified along with a set of criteria or parameters. The MPC and Project Manager will provide example SAPs from other PCB projects to illustrate desired document format and organization. Sample collection methods will be described, based to those in the Taking Action for Clean Water - PCBs in Caulk Project Report: “Estimated Stock in Currently Standing Buildings and Releases to Stormwater during Renovation and Demolition”(available at http://www.sfestuary.org/wp-content/uploads/2013/01/1_FinalPCBcaulkreport.pdf) and in the CW4CB SAP

QAPP contents and format should be prepared to provide data comparability with the Surface Water Ambient Monitoring Program (SWAMP). Minimum data quality shall be consistent with the latest version of the SWAMP Quality Assurance Project Plan (QAPP) for applicable parameters, including data quality objectives, field and laboratory blanks, field duplicates, laboratory spikes, and clean techniques, using the most recent SWAMP Standard Operating Procedures. The QAPP should, as much as practicable, be consistent with applicable language or methods from other relevant PCB and caulk sampling projects such as the Taking Action for Clean Water - PCBs in Caulk Project (managed by San Francisco Estuary Partnership) and from other relevant BMP effectiveness monitoring projects such as CW4CB. The QAPPs from these projects will be provided by the BASMAA Project Manager.

- **Task 3.** Consultant would prepare a cost estimate for implementation of field sampling activities, and laboratory analysis. The cost estimate would include, but would not be limited to, costs associated with the specific monitoring projects and locations. This information would be reviewed and used to determine the final monitoring design, SAP and QAPP.

Phase II – Field Monitoring and Laboratory Analysis

- **Task 4.** Consultant would review and coordinate field sampling procedures with participating Permittees, and the BASMAA's Project Manager. This would include, but would not be limited to, confirming field monitoring locations and access, schedules, and planned traffic and safety precautions.
- **Task 5.** Consultant would collect and transport samples to the laboratory in accordance with the monitoring design and SAP/QAPP.

Phase III - Data Analysis and Preparation of Summary Reports

- **Task 6.** Consultant would analyze monitoring data and prepare draft and final study summary report evaluating PCBs presence in caulks/sealants used in storm drain or roadway infrastructure in public rights-of-way would be prepared for approval by BASMAA MPC, Permittees and then the BASMAA BOD, and submitted to the Water Board with the 2018 Annual Report. [Report would also be referenced in the October 2018 POC Monitoring Reports and March 2019 Urban Creeks Monitoring Report.]
- **Task 7.** Consultant would analyze monitoring data and prepare draft and final study summary report, which would be in a format that is useable for control measure planning and load reduction accounting / RAA, on monitoring the effectiveness of specific management actions in reducing or avoiding mercury and PCBs discharges in MS4 discharges. The report would be prepared for approval by the BASMAA MPC, Permittees, and then the BASMAA BOD, and submitted to the Water Board with the March 2019 Urban Creeks Monitoring Report. [This report would be used to inform preparation of the RAA due to the Water Board with the 2020 Annual Report.]

Project Concept: POC Monitoring for Source Identification and Management Action Effectiveness

Project Deliverables and Deadlines and Cost Estimates:

Task Number	Deliverables	Deadlines
1, 2, & 3	Draft Monitoring Study Design, SAP/QAPP, and Cost Estimates	March 2017
1, 2, & 3	Final Monitoring Study Design, SAP/QAPP and Cost Estimates	May 2017
4 & 5	Field Monitoring & Laboratory Analysis	March 2018
6	Draft Summary Report (Monitoring Priority #1)	May 2018
6	Final Summary Report (Monitoring Priority #1)	July 2018
7	Draft Summary Report (Monitoring Priority #3)	October 2018
7	Final Summary Report (Monitoring Priority #3)	December 2018

Task Number	Deliverables	Cost Estimate		
		FY 16/17	FY 17/18	FY 18/19
1, 2 & 3	Draft and Final Monitoring Study Design, SAP/QAPP, and Cost Estimate	\$65,000		
4 & 5	Field Monitoring & Laboratory Analysis		\$250,000	
6	Draft & Final Summary Report (PCBs in infrastructure)		\$30,000	
7	Draft & Final Summary Report (BMP effectiveness)			\$40,000
Total		\$65,000	\$280,000	\$40,000

Project Concept: POC Monitoring for Source Identification and Management Action Effectiveness

Project partners, if any: None.

Implementer(s): Committee(s): MPC

Consultant: TBD via selection

[Check/list as appropriate] Member _____ Other _____

Selection Process(es): [¹ If proposed implementer would be a consultant(s) to BASMAA, check method(s) for identifying best candidate(s) to recommend to the Board of Directors. See Policy and Procedure: *Consultant Selection and Contracting* for more information]

____ Executive Director Discretion ____ Sole Source ____ Request for Qualifications

X Request for Proposal ____ Interview

Proposer: MPC representatives

Date: 10/3/17



B A S M A A

Project Concept for BOD Review

2017 Board of Directors Priorities addressed: Compliance with MRP Provisions C.8.d (Creek Status Monitoring and C.20 (Expiration Date - Report of Waste Discharge)

Title: Redesign of Bioassessment Monitoring Program

Purpose: The purpose of this project is to develop a new monitoring design that will enhance or replace the probabilistic design that is currently used by RMC partners to select bioassessment monitoring stations and evaluate biological integrity throughout the MRP area. The new monitoring design will reflect current approaches being used by other programs in California (e.g., Southern California Stormwater Monitoring Coalition) and will consider data results and lessons learned from the current design.

A carefully planned new monitoring design will be necessary during the Report of Waste Discharge (ROWD) process in 2020 in order to negotiate a new MRP with efficient, effective, and useful creek status monitoring approaches.

It is anticipated that this Project would begin in late 2018 (i.e., FY 2018/19), following completion of the RMC 5-Year Bioassessment Report project, and would be completed by June 2020 (i.e., FY 2019/20) for submittal with the ROWD.

Background: To address the requirements of the first MRP, the RMC developed the Creek Status and Long-Term Trends Monitoring Plan (EOA and ARC 2012). This Plan, for which implementation began in Water Year (WY) 2012, includes a probabilistic monitoring design developed to address the management questions on a regional scale and compare creek monitoring results across stormwater programs. The RMC's monitoring design is consistent with the design used by the statewide Perennial Streams Assessment (PSA) program and is specifically intended to allow for future integration of data between the two monitoring programs.

RMC members have now conducted bioassessment monitoring using the probabilistic design for over five years and the larger Programs (Alameda, Contra Costa, San Mateo, Santa Clara) have each accumulated a statistically significant number of samples (i.e., at least 30) for assessing the condition of aquatic life in urban creeks within their respective counties, the primary management question that was identified during the design. Now that the minimum number of bioassessment samples needed for statistical inferences have been collected, BASMAA has initiated a project to analyze the biological condition of SF Bay Area creeks can be analyzed within the context of potential stressors.

On August 28, 2017, BASMAA initiated the RMC 5-Year Bioassessment Report project. One of the goals of that project is to Evaluate the Creek Status Monitoring Design within the overall regulatory context and propose recommendations for changes to the monitoring design and/or recommendations for a redesign process. In addition to considering the evolution of the MRP



B A S M A A

and the ongoing statewide Biostimulatory-Biointegrity Project, recent changes to the Southern California SMC Regional Watershed Monitoring Program (sister Program to the RMC) will be evaluated and considered. Potential changes to the Creek Status Monitoring Design that will be considered include (but are not limited to): transition to a trends focused program, elimination of the non-urban strata, and addition of new strata.

Scope: This project will follow-up on recommendations from the RMC 5-Year Bioassessment Report project related to redesign of the probabilistic monitoring design. It is too early to know what recommendations will come out of the RMC 5-Year Bioassessment Report project; however, it likely that the new monitoring design will address trends in biological integrity. Setting up a trends focused monitoring program would require statistical analysis of available creek condition data to estimate variability and implementation of a power analysis to determine appropriate future sampling frequencies. Coordination with other monitoring programs (such as the SMC) and tracking of statewide policy efforts (such as the Biostimulatory-Biointegrity Project) would also be part of this project.

Products: The final product is anticipated to be a report describing the revised management questions, monitoring design and the methods and analyses that were implemented to develop the design. Additionally, a new list of sampling sites that member agencies will use to address the revised management questions will also be included.

Schedule: This project will occur during the second half of FY 2018/19 with the intention of adding tasks to complete the monitoring design during the first half of FY 2019/20.

Cost (estimate): \$50,000 (FY 2018/19) plus \$25,000 (FY 2019/20)

Project partners, if any: none

Implementer(s): Committee(s): MPC _____ Consultants: _____

[Check/list as appropriate] Member _____ Other _____

Selection Process(es): [¹ If proposed implementer would be a consultant(s) to BASMAA, check method(s) for identifying best candidate(s) to recommend to the Board of Directors. See Policy and Procedure: *Consultant Selection and Contracting* for more information]

____ Executive Director Discretion ____ Sole Source ____ Request for Qualifications

____ Request for Proposal ____ Interview

Proposer: MPC _____ **Date:** 10/10/2017 _____



B A S M A A

Project Concept

2018 Board of Directors Priorities Addressed: Reasonable Assurance Analysis (RAA) Approach (MRP Provisions C.11.d/C.12.d)

Title: Refined Source Control Load Reduction Accounting for RAA

Purpose: Support revisions to the Interim Accounting Methodology for estimating load reductions from source control measures (i.e., Source Property Identification and Abatement, Enhanced Operations and Maintenance, Manage PCBs in Building Materials and Infrastructure, Pump Station Diversion, and others) for conducting reasonable assurance analyses (RAAs).

Background: MRP Provisions C.11.d. and C.12.d. require the Permittees to prepare plans and schedules for mercury and PCBs control measure implementation and an RAA demonstrating that those control measures will be sufficient to attain the mercury TMDL wasteload allocations by 2028 and the PCBs TMDL wasteload allocations by 2030. A previous BASMAA Regional Project developed the *Bay Area RAA Guidance Document*, which established a regional framework and guidance for conducting RAAs in the Bay Area, including the types of modeling and data inputs that may be used by the Programs and Permittees for estimating loads reduced by green infrastructure. Section 4.2 of the *Bay Area RAA Guidance Document* states that load reductions for source controls should be calculated based on methods provided in an approved refinement of the Interim Accounting Methodology, which was previously developed by BASMAA and approved by the Water Board for use during MRP 2.0.

Scope: This project will refine the Interim Accounting Methodology Report for the purposes of source control load reduction accounting in the RAAs and MRP 3.0. Refinements will include:

- Review the description of each control measure in the Interim Accounting Methodology Report and revise as needed to reflect current knowledge and practices (e.g., revise Source Property Identification and Abatement to clarify issues related to Enhanced O&M and properties that discharge directly to the Bay, etc.).
- Develop a load reduction accounting method for electrical utilities as a categorical source referral. This task will be closely coordinated with implementation of the Regional SSID Project Work Plan (to be developed via the Regional SSID Project Work Plan regional project), which will establish control measures for controlling PCBs from electrical utility properties and equipment. This accounting method should include accounting for cleanup of transformer spills and leaks as well as the proactive removal of transformers and replacement of transformer oil.
- Building upon the results of the POC Monitoring for Source Identification and Management Action Effectiveness regional project and other information available on the effectiveness of structural controls, develop better estimates for pollutants removed via full trash capture devices of all types.

Project Concept

Refined Source Control Load Reduction Accounting for RAA

- Review and revise the Enhanced O&M control measure accounting as needed (e.g., use the Source Property yield to account for enhanced O&M conducted around source properties that are not referred or self-abated).
- Building on the final recommendations for data collection from the PCBs Materials Management during Building Demolition regional project, establish a data collection and analysis methodology to inform future estimates of loads reduced through implementation of measures to control PCBs in building materials during demolition. Outline approach to future load reduction accounting for this control measure.
- Review how source control measures may affect each other in reducing loads, and incorporate agreed upon concepts into the refined accounting methods.
- Determine how source control load reduction credits should be adjusted to be consistent with adjustments to the baseline loading estimated through calibrated RAA baseline modeling.

Products: Refined Source Control Load Reduction Accounting Methodology for Bay Area RAAs.

Schedule: FY 2018-19 and first half of FY 2019-20

Cost (estimate): \$100,000

Project partners, if any: None

Implementer(s): Committee(s) BoD RAA Work Group ___ Consultant_____

[Check/list as appropriate] Member_____ Other_____

Selection Process(es): [If proposed implementer would be a consultant(s) to BASMAA, check method(s) for identifying best candidate(s) to recommend to the Board of Directors. See Policy and Procedure: *Consultant Selection and Contracting* for more information]

___ Executive Director Discretion ___ Sole Source ___ Request for Qualifications

Request for Proposal ___ Interview

Proposer: Monitoring / POCs Committee _____ **Date:** 5/23/18 _____

PCBs Material Management during Building Demolition: Outreach, Protocol, Tools, and Training

Scope of Work and Preliminary Planning Cost Estimate

PURPOSE AND NEED

With the adoption of reissued San Francisco Bay Area stormwater Municipal Regional Permit (MRP 2.0) by the San Francisco Bay Regional Water Quality Control Board (Regional Water Board) in November 2015, the implementation of stormwater control programs for PCBs has become a high priority compliance issue for Permittees throughout the Bay Area. Management of building materials during demolition of certain buildings is an important aspect of the overall PCBs program. MRP 2.0 Provision C.12.f. requires that by July 1, 2019 Permittees develop and implement or cause to be developed and implemented an effective protocol for managing materials with PCBs concentrations of 50 ppm or greater in applicable structures at the time such structures undergo demolition, so that PCBs do not enter municipal storm drain systems.

On behalf of MRP 2.0 Permittees, the Bay Area Stormwater Management Agencies Association (BASMAA) plans to request professional consulting services for the development of a PCBs in building materials control program including necessary outreach, guidance and tools, and training. This document provides a general scope of work and preliminary planning-level cost estimate for the project. Work on the project is assumed to be spread over three fiscal years (FY). Work will start during the remainder of FY 2016-17 (assumed to be March – June 2017), the majority of the work will be conducted in FY 2017-18, and wrap-up and training will be conducted in FY 2018-19.

This project will build on extensive existing resources, which are summarized below. The most important of these are a set of materials developed in 2010-2011 by the San Francisco Estuary Partnership (SFEP) with State Water Board grant funding, called the “PCBs in Caulk Project.” Current activities by BASMAA, including a PCBs in public roadway infrastructure sampling project, may provide additional materials useful for this project.

Available materials include:

- United States Environmental Protection Agency (USEPA) PCBs in Building Materials web pages, which provide background information, testing, remediation, and regulatory guidance (<https://www.epa.gov/pcbs/polychlorinated-biphenyls-pcbs-building-materials>)
- A preliminary model implementation process (MIP), including:
 - Proposed municipal implementation process
 - Model ordinance
 - Model staff report
 - Forms & flow charts
 - Frequently Asked Questions
 - List of obstacles, challenges and future needs identified in 2011 as needing to be addressed prior to implementation of any such process
 - Training strategy

- Summaries of existing regulatory requirements, including Task 2.3 Research Results Final Technical Memorandum, September 2010,” Table 1 in the MIP report, and information on the USEPA website
- Methods to prevent PCBs release into urban runoff: Best Management Practices for Reducing PCBs in Runoff Associated with Demolition and Remodeling Projects (November 2011) and remediation guidance (USEPA website)
- PCBs in caulk sampling and analysis plans: SFEP (2010), SFEI (2011) (see <http://www.sfestuary.org/taking-action-for-clean-water-pcbs-in-caulk-project/>) and BASMAA (in development)

SCOPE OF WORK

The scope of work in includes efforts necessary to comply with the MRP 2.0 and to assist municipalities with the adoption and implementation of a PCBs in building materials control program. Work is divided into eight tasks, listed below, with details to describe the goals, work effort, and anticipated deliverables.

Task 1. Assemble and Review Existing Information and Update Regulatory Drivers and Requirements

Task 2. Communication and Coordination to Support Project Development

Task 3. Assessment Protocol for Prioritized PCBs-Containing Building Materials

Task 5. Update Supplemental Demolition Permit Application Materials and Process Flow Charts

Task 4. Model Ordinance Language and CEQA Document

Task 6. Outreach and Training to Support Implementation

Task 7. Tracking and Assessment

Task 8. Project Management, Communication, and Client Meetings

Task 1. Assemble and Review Existing Information and Update Regulatory Drivers and Requirements

Under this task the consultant will review the existing available project-related materials supplied by BASMAA and readily available from other reliable sources and identify changes and new information that need to be factored in to the current project, including additional materials understood to contain PCBs (materials in addition to caulk, such as mastics, paint, and coatings), and USEPA and USEPA Region 9’s efforts to address PCBs in building materials.¹ Summarize new information in a brief technical memorandum that identifies any decisions needed by BASMAA prior to proceeding with the remainder of the project.

- Review project-related materials.
- Identify building materials commonly understood to contain PCBs at ≥ 50 ppm.

¹ For example <http://www.smmusd.org/PublicNotices/Malibu.html>,
http://media.wix.com/ugd/561311_de09e627be9e48648494a2dccc026db2.pdf

- Contact USEPA and state and local agencies for updated information on PCBs-containing materials testing, assessment, and regulatory processes.

Deliverables:

1. Summary of new information.
2. Draft list of building materials understood to contain PCBs at ≥ 50 ppm and prioritized by likelihood to be exposed and released to the storm drainage system during or after the demolition process.
3. Final list of up to three PCBs-containing building materials to be addressed by the project.
4. Annotated table of regulatory drivers and relevant requirements.

Task 2. Communication and Coordination to Support Project Development

Communication and coordination with BASMAA, Permittees, and stakeholders is essential to the success of this project. Under this task the consultant will develop coordination and outreach strategy to communicate with BASMAA and stakeholders at a variety of levels during the project. The consultant will provide a single point of contact to respond to inquiries from BASMAA, Permittees, and stakeholders.

Subtask 2.1 Coordination and Engagement Strategy

The consultant will develop a written coordination and engagement strategy that lays out the approach to keeping BASMAA decision makers informed, gaining permittee support, input from the affected community, and regulatory engagement in a transparent process. **Table 1** identifies key groups should be incorporated into the strategy. The strategy should incorporate the Task 2 subtasks identified in the scope of work.

The engagement strategy will include a proposed schedule for engaging the key groups throughout the project, holding focused round table discussions, and will identify the initial outreach efforts need to identify, contact, and engage key stakeholders. The strategy will include convening a Regulatory Round Table and Industry Round Table (focus groups to meet once and provide specific feedback at the start of the project) and establishing a Technical Advisory Group (TAG) to provide technical and regulatory input to the project.

After development of the draft strategy, meet with the BASMAA Steering Committee to discuss approach. Finalize strategy based on BASMAA comments and implement the strategy.

Deliverables:

1. Written coordination and engagement strategy and schedule, draft and final.

Table 1. Summary of Key Groups in the PCBs in Building Materials Project and Assumed Communication Frequency

Group	Role	Frequency Assumed for Budget
BASMAA Board of Directors	Approves all final work products in accordance with BASMAA policies and procedures.	<ul style="list-style-type: none"> • 6 briefings • 2 in FY1, 3 in FY2, 1 in FY3 • see Task 8
BASMAA Steering Committee	Members selected by BASMAA Board to provide strategic direction based on BASMAA and Permittee goals and needs. Approves all draft work products prior to release to stakeholders or the public. Ideally includes higher-level Permittee representatives and as many BASMAA Board members as possible.	<ul style="list-style-type: none"> • 6 briefings • 2 in FY1, 3 in FY2, 1 in FY3 • see Task 8
Stakeholder Group	Larger group with members drawn from municipalities, industry ² , waste management entities, interested public, regulatory agencies (e.g., RWQCB, USEPA, DTSC, and BAAQMD), and consultants to keep informed about the project and from whom to seek feedback and information.	<ul style="list-style-type: none"> • 2 focused round tables (FY1) • 2 stakeholder meetings (FY2) • see Task 2.3
Technical Advisory Group	A small balanced advisory group to be formed from industry, regulatory, and Permittee representatives to provide specific review and input on project work products as they are developed, but not ultimate approval.	<ul style="list-style-type: none"> • 6 meetings (1 in FY1 and 5 in FY2) • see Task 2.3

Subtask 2.2 Initial Industry Stakeholder Outreach and Engagement

Engagement of industry stakeholders that do not typically engage with BASMAA or stormwater programs is important to the success of the project and will help to mitigate potential delays later in the process of ordinance adoption. To engage industry stakeholders requires an active outreach effort and sustained communication to develop relationships with key representatives.

The consultant will develop a project initiation presentation to explain MRP 2.0 requirements, summarize the project and schedule, obtain an initial understanding of stakeholder interests and questions, and invite stakeholder input via the project. The consultant will develop a list of potential groups for project initiation presentations. BASMAA will prioritize the groups for the consultant to contact to offer presentations.

Deliverables:

2. Project initiation presentation and outreach materials (flyers, email blasts).
3. List of potential groups for project initiation presentations.
4. List of key contacts and presentations made (name, organization, phone, email).

² In this context industry means individuals, contractors, developers, property owners, financiers, attorneys, realtors their representatives and consultants engaged or responsible for the assessment of PCBs in building materials. This list is intended to be descriptive, not exclusive.

5. Project initiation presentations to be conducted at up to eight industry meetings, workshops, or seminars.

Subtask 2.3 Implement Stakeholder and Technical Advisory Group Outreach and Engagement

Under this task the consultant will facilitate meetings with stakeholders, conduct round tables discussions, and will establish the small Technical Advisory Group (TAG) to provide input to the project. The budget provided below assumes two round table meetings at the outset of the project (one with each group), up to two stakeholder meetings, and up to six meetings of the TAG. Throughout the project the consultant will provide a single point of contact for all inquiries about the project. The consultant shall maintain a record of their key contacts.

- Conduct stakeholder outreach meetings to obtain input on draft project materials toward the goal informing the stakeholders and considering their feedback to the extent as practical while maintaining BASMAA’s goals including cost-effective and timely fulfillment of its permit requirements.
- Convene and facilitate a round-table of interagency representative to discuss regulatory requirements, interests, overlapping jurisdiction, and barriers to successful program implementation.
- Convene and facilitate a round-table discussion of industry representatives to discuss current practices, industry drivers, and barriers to assessment and abatement.
- Convene and facilitate meetings of the TAG to review the prioritized list of PCBs-containing building materials developed under Task 1, the protocol for assessing prioritized PCBs-containing materials in buildings developed under Task 3, and the demolition permit materials developed under Task 5.
- Track inquiries to the point of contact.

Deliverables:

6. Table of local, state, and federal regulatory agency interested parties, with contact information.
7. Table of industry representatives with contact information.
8. Round Table agendas, materials, and meeting notes (two meetings).
9. List of TAG members and contact information.
10. TAG meetings agendas, materials, and meeting notes (up to six meetings).
11. Stakeholder outreach meetings agendas, materials, and meeting notes (up to two meetings).
12. Table of inquiries to the point of contact and responses.

Task 3. Assessment Protocol for Prioritized PCBs-Containing Building Materials

Under this task the consultant will develop a protocol for the assessment of prioritized PCBs-containing building materials prior to demolition. Current PCBs-containing material assessment

practices by proactive demolition firms and property owners will be identified, reviewed, and considered in the development of this task. Development of the protocol is to be conducted by consultant team experts, with input from the TAG under Task 2.

The consultant will draft a comprehensive protocol for the assessment of PCBs in the prioritized building materials. Development of the protocol should be informed by existing ASTM standards (e.g., ASTM E2356-14 Standard Practice for Comprehensive Building Asbestos Surveys), but would not be developed through the ASTM process. Key components of the assessment protocol include procedures for conducting a comprehensive assessment to locate, identify, sample, and perform chemical analyses to measure PCBs concentrations in building materials. The TAG (Task 2) will provide input and peer review the draft protocol.

Deliverables:

1. Summary of information describing the current state of the practice for identification of the prioritized categories of PCBs-containing building materials.
2. Present materials and obtain feedback at TAG meetings.
3. TAG subgroup agendas, materials, and meeting notes related to this task.
4. Protocol for the assessment of prioritized PCBs-containing building materials prior to demolition, draft, and final.
5. Table of TAG comments identifying any areas where consensus was not reached.

Task 4. Model Ordinance Language and CEQA Document

Under this task the consultant will develop a model municipal ordinance language, CEQA document and supporting staff reports and resolutions.

Subtask 4.1 Model Ordinance Language

Develop and model ordinance language, staff report and resolution. The starting point will be the model ordinance and staff report developed for the PCBs in Caulk Project and they will be updated based on input from BASMAA, the protocol developed in Task 3, and other new information identified in Task 1. The model ordinance language should reflect that some municipalities may choose to update an existing ordinance (e.g., stormwater, demolition) and other may choose to adopt a new ordinance.

Deliverables:

1. Model municipal ordinance language, draft and final.
2. Staff report and resolution, draft and final.

Subtask 4.2 Model CEQA Document

Develop a model CEQA document and supporting information that each jurisdiction can adapt for its use. Under this task the consultant will research and present an approach for CEQA compliance. The budget and level of effort for the CEQA document is assumed to be a Categorical Exemption or Negative Declaration. The approach will identify the level of

documentation (substantial evidence) that is needed to support use of a categorical exemption or Negative Declaration

Deliverables:

3. CEQA approach strategy and justification.
4. Model CEQA document, staff report, and resolution draft and final.

Task 5. Update Supplemental Demolition Permit Application Materials and Process Flow Charts

Under this task the consultant will develop an updated template for a municipal PCBs building materials process to accompany a demolition permit application. The starting point will be the model flowcharts and forms developed for the PCBs in Caulk Project to incorporate the PCBs in building materials control program requirements that municipalities will need to verify to issue a demolition permit. The model will incorporate the steps developed in the protocol for assessing prioritized PCBs-containing materials in buildings prior to demolition (Task 3), transforming those steps into appropriate application questions and submittals. The model will also incorporate tracking and assessment information (Task 7) required by MRP 2.0.

The consultant will develop the analysis required for the establishment of a permit fee schedule by municipalities for the costs and work associated with reviewing demolition permits projects involving PCBs in building materials. Development to be coordinated with TAG under Task 2.

Deliverables:

1. Updated PCBs supplemental demolition permit application forms and applicant instructions, and updated flow charts that illustrate the process draft and final
2. Cost analysis and justification for municipalities to use to modify their existing demolition permit fee schedules.

Task 6. Outreach and Training to Support Implementation

Under this task the consultant will develop training and outreach materials. The objective of this task is to provide project information and guidance to municipal staff and outreach information to industry stakeholders on the adoption and implementation of the PCBs in building materials control program.

Subtask 6.1 Municipal Staff Informational Outreach – Ordinance and Demolition Permit

The consultant will develop outreach materials and a standard presentation to inform municipal staff following the completion of Tasks 4 and 5. The goal of this subtask is to provide municipal staff with the information and outreach tools they will need to brief other staff and managers on the ordinance and program requirements.

Deliverables:

1. Municipal outreach materials on the model ordinance and demolition permit, draft and final.

Subtask 6.2 Municipal Staff Training – Program Implementation

The consultant will develop a training strategy and schedule that identifies the municipal staff target audience and the specific knowledge, skills, and abilities to implement the program. The starting point will be the training strategy and materials developed for the PCBs in Caulk Project and it will be updated based on input from BASMAA and the work products of Tasks 3-5.

The consultant will develop municipal staff training materials to provide the necessary Knowledge, Skills, and Abilities (KSAs) for the target audience. The training materials shall be sufficiently detailed and annotated with speaker notes such that it can be used by municipalities to train staff in the future.

The consultant will develop and present a pilot training workshop after which the training materials will be revised based on feedback and finalized. The consultant will conduct one train the trainer session for municipal staff so they may conduct the training in-house or through countywide programs. Logistics for the pilot training and train the trainer session (advertising, registration, venue, refreshments) will be managed by BASMAA.

Deliverables:

2. Municipal staff training materials, draft and final.
3. One pilot training workshop (or other appropriate training format) for municipal staff.
4. One “Train the Trainer” session for key municipal staff.

Subtask 6.3 Industry Stakeholder Outreach – Program Implementation

The consultant will develop outreach materials and a standard presentation to inform industry stakeholders including developers, planning firms, urban planning NGOs, demolition firms, property owners, property managers, and realtors regarding the PCBs in building materials control program. Materials will address the protocol for the assessment of prioritized PCBs in building materials, Demolition Permit requirements, and BMPs. The standard presentation will be developed in PowerPoint and designed to be delivered in 20 minutes with detailed speaker notes. The consultant will develop a list of regionally appropriate outreach opportunities for the 6 month period following the completion of the project. Outreach presentations will be arranged and provided by municipal and/or program staff.

Deliverables:

5. Industry outreach materials, draft and final.
6. List of outreach opportunities including contact information and dates.

Task 7. Tracking and Assessment

Under this task the consultant will develop an approach and tools for use by the municipalities individually and/or regionally to collect and assess implementation of the PCBs in building materials control program consistent with MRP 2.0. Information from this task will be incorporated into the information collection requirements in Tasks 3 and 5, and will be used to enhance field assessments of BMP implementation at demolition sites involving PCBs in building materials. The approach will be informed by parallel BASMAA projects developing RAA guidance and identification of data gaps.

The consultant will propose a long term method of managing the data collected and submitted by project proponent to facility with the goal of facilitating local and/or regional assessments of loads avoided.

Deliverables:

1. Tracking and assessment approach strategy.
2. Tracking spreadsheet to document and collate information on the number and location of buildings addressed by the PCBs in building materials control program. Data fields shall include the information required to include in GIS.
3. Standardized electronic format for submittal of data collected by project proponents.
 - a. Building materials characterization data (e.g., analytic data, quantity of material disposed).
 - b. Clean up characterization data (if required, analytic data).
4. List of recommended information to collect during routine construction inspections.

Task 8. Project Management, Communication, and Client Meetings

Under this task the consultant will communicate and meet with the Steering Committee, communicate with BASMAA’s Project Officer, Committees, Permittees, and attend meetings with BASMAA’s Board of Directors to provide status updates on the project and take input on the project. At this time the number of meetings cannot be predicted. The budget will assume up to six meetings with the BASMAA Board of Directors and six with the Steering Committee. Some meetings can be conducted via conference call. Additional meetings will be charged on a time and materials basis.

- Attend and provide briefings to BASMAA Board of Directors
- Attend and participate in Steering Committee meetings/calls
- Provide as need briefings to the BASMAA Project Officer and other communications as needed, mainly via email and telephone

Deliverables:

1. Briefings at BASMAA meeting on project status (up to six meetings).
2. Steering Committee meetings agendas, materials, and meeting notes (up to six meetings).

BUDGET

Table 2 provides a preliminary planning cost estimate that was developed to assist BASMAA in budgeting the project. The estimate was developed using a supporting budget spreadsheet that contains further details, including the estimated break down of hours and hourly rates and notes on assumptions.

Table 2. Preliminary Planning Cost Estimate

Budget Category	Fiscal Year 2016-17				Fiscal Year 2017-18				Fiscal Year 2018-19				Project Grand Total
	# of Hours	Total Labor	Direct Costs	TOTALS	# of Hours	Total Labor	Direct Costs	TOTALS	# of Hours	Total Labor	Direct Costs	TOTALS	
Task 1. Assemble and Review Existing Information and Update Regulatory Drivers and Requirements	40	\$8,000	\$0	\$8,000	0	\$0	\$0	\$0	0	\$0	\$0	\$0	\$8,000
Task 2. Communication and Coordination	270	\$55,000	\$1,100	\$56,100	250	\$54,000	\$700	\$54,700	0	\$0	\$0	\$0	\$110,800
Subtask 2.1 Coordination and Engagement Strategy	30	\$7,000	\$0	\$7,000	0	\$0	\$0	\$0	0	\$0	\$0	\$0	\$7,000
Subtask 2.2 Initial Industry Stakeholder Outreach and Engagement	100	\$19,000	\$800	\$19,800	0	\$0	\$0	\$0	0	\$0	\$0	\$0	\$19,800
Subtask 2.3 Implement Stakeholder and TAG Outreach and Engagement	140	\$29,000	\$300	\$29,300	250	\$54,000	\$700	\$54,700	0	\$0	\$0	\$0	\$84,000
Task 3. Assessment Protocol for Prioritized PCBs-Containing Building Materials	170	\$33,000	\$100	\$33,100	350	\$64,000	\$100	\$64,100	0	\$0	\$0	\$0	\$97,200
Task 4. Model Ordinance Language & CEQA Document	0	\$0	\$0	\$0	260	\$49,000	\$400	\$49,400	0	\$0	\$0	\$0	\$49,400
Subtask 4.1 Model Ordinance Language	0	\$0	\$0	\$0	30	\$7,000	\$0	\$7,000	0	\$0	\$0	\$0	\$7,000
Subtask 4.2 Model CEQA Document	0	\$0	\$0	\$0	230	\$42,000	\$400	\$42,400	0	\$0	\$0	\$0	\$42,400
Task 5. Update Supplemental Demolition Permit Application Materials and Flowcharts	0	\$0	\$0	\$0	70	\$14,000	\$0	\$14,000	0	\$0	\$0	\$0	\$14,000
Task 6. Outreach and Training to Support Implementation	0	\$0	\$0	\$0	0	\$0	\$0	\$0	100	\$19,000	\$200	\$19,200	\$19,200
Subtask 6.1 Municipal Staff Informational Outreach – Ordinance and Demolition Permit	0	\$0	\$0	\$0	0	\$0	\$0	\$0	30	\$6,000	\$0	\$6,000	\$6,000
Subtask 6.2 Municipal Staff Training – Program Implementation	0	\$0	\$0	\$0	0	\$0	\$0	\$0	30	\$6,000	\$200	\$6,200	\$6,200
Subtask 6.3 Industry Stakeholder Outreach Development – Program Implementation	0	\$0	\$0	\$0	0	\$0	\$0	\$0	40	\$7,000	\$0	\$7,000	\$7,000
Task 7. Tracking and Assessment	0	\$0	\$0	\$0	90	\$18,000	\$0	\$18,000	0	\$0	\$0	\$0	\$18,000
Task 8. Project Management, Communication, and Client Meetings	100	\$22,000	\$300	\$22,300	180	\$40,000	\$1,000	\$41,000	60	\$14,000	\$300	\$14,300	\$77,600
Grand Total:	580	\$118,000	\$1,500	\$119,500	1200	\$239,000	\$2,200	\$241,200	160	\$33,000	\$500	\$33,500	\$394,200

BASMAA Regional Project Profile

Project Name: IPM Partnership / *Our Water, Our World* Program XX

Description: In partnership with the Bay Area Pollution Prevention Group, BASMAA has been conducting the current IPM (Integrated Pest Management) Partnership / *Our Water, Our World* Program annually since FY 99-00. The Regional IPM Partnership is a collaboration among regional and local water pollution prevention agencies in nine San Francisco Bay Area counties and locally owned nurseries and hardware stores. The Partnership encourages less-toxic methods of pest prevention and control by means of a point-of-sale program called the *Our Water, Our World* Program. The Program helps 76 Phase I permittees and 23 Phase II permittees meet their respective permit requirements.

The Municipal Regional Permit requires the following:

C.9.e. Public Outreach

i. Task Description – Permittees shall undertake outreach programs to (a) encourage communities within the Permittee’s jurisdiction to reduce their reliance on pesticides that threaten water quality; (b) encourage public and private landscape irrigation management that minimizes pesticide runoff; and (c) promote appropriate disposal of unused pesticides.

ii. Implementation – The Permittees shall conduct each of the following:

(1) **Point of Purchase Outreach:** The Permittees shall:

- Conduct outreach to consumers at the point of purchase;
- Provide targeted information on proper pesticide use and disposal, potential adverse impacts on water quality, and less toxic methods of pest prevention and control; and
- Participate in and provide resources for the “Our Water, Our World” program or a functionally-equivalent pesticide use reduction outreach program.

iii. Reporting – In each Annual Report, Permittees shall describe their actions taken in the three outreach categories above. Outreach conducted at the county or regional level shall be described in Annual Reports prepared at that respective level; reiteration in individual Permittee reports is discouraged. Reports shall include a brief description of outreach conducted in each of the three categories, including level of effort, messages and target audience. (The effectiveness of outreach efforts shall be evaluated only once in the Permit term, as required in Provision C.9.f.).

The Small MS4 Permit requires the following:

E.7.a.(ii)(b) and F.5.b.2.(ii)(b) Implement surveys [at least twice during the permit term] to gauge the level of awareness in target audiences and effectiveness of education tasks;

E.7.a.(ii)(c) and F.5.b.2.(ii)(c) Develop and convey a specific stormwater message that focuses on the following:

- 1) Local pollutants of concern
- 2) Target audience
- 3) Regional water quality issues

E.7.a.(ii)(d) and F.5.b.2.(ii)(d) Develop and disseminate appropriate educational materials to target audiences and translate into applicable languages when appropriate (e.g. the materials can utilize various media such as printed materials, billboard and mass transit advertisements, signage at select locations, stenciling at storm drain inlets, radio advertisements, television advertisements, and websites);

E.7.a.(ii)(f) and F.5.b.2.(ii)(e) Distribute the educational materials, using whichever methods and procedures determined appropriate during development of the public education strategy;

BASMAA Regional Project Profile

E.7.a.(ii)(g) and F.5.b.2.(ii)(f) Convey messages to explain the benefits of water-efficient and storm water-friendly landscaping, using existing information if available;

E.7.a.(ii)(i) and F.5.b.2.(ii)(i) Develop and convey messages specific to proper application of pesticides, herbicides, and fertilizers;

E.15.d Diazinon Total Maximum Daily Load TMDL: Conduct outreach to residents and pest control applicators on less toxic methods of pest control (requirement applies only to cities, towns and counties named in the TMDL and/or in Attachment G of the Phase II Permit);

FY: 18-19

One-time_____ Multi-FY X

MRP reference: C.9.e.ii.(1)

Compliance date: Annual

Committee task ID: Not applicable

Profile last updated on: 10/25/17

Overseer 1: PIP Committee

Project Officer: Geoff Brosseau

Overseer 2: Not applicable

Budget: \$50,000 (\$10,000 from BAPPG)

Status: PI/P Committee review – 10/26/17

Funding source(s): BASMAA; BAPPG (\$10,000)

Contracting Agency(s): BASMAA

Contractor(s): Ann Joseph; Debi Tidd, Janet Cox, BIRC; Lauren Wohl; Printers

Deliverable(s):

Due/completed

Recruited / Trained IPM Advocates

Fall 2018

Updated Fact Sheets / Materials¹

November 2018

Less-toxic products lists / Store shelf label files

December 2018

Updated Website

December 2018

List of participating stores

February 2019

Educational booth at trade shows

Ongoing

Employee trainings / Materials

Ongoing

Ask-the-Expert feature

Ongoing

Coordination – General, IPM Advocates, Chains

Ongoing

Final Report

July 2019

¹ BASMAA pays for printing of inventory and is reimbursed by agencies purchasing materials



B A S M A A

Project Concept

2018 Board of Directors Priorities addressed: Trash Load Reduction – Receiving Water Monitoring (C.10.b.v)

Title: Preliminary and Final Reports on Trash Receiving Water Monitoring Program Plan and Related Tasks

Purpose: Assist BASMAA in preparation and drafting of Preliminary and Final Reports on BASMAA's Trash Receiving Water Monitoring Program Plan and related tasks including revisions to the California Environmental Data Exchange Network (CEDEN).

Background: The reissued Municipal Regional Stormwater Permit (MRP) requires Permittees to develop and test a trash receiving water monitoring plan to address specific trash management questions. Subsequently, a Receiving Water Monitoring Program Plan (Plan) was developed at the regional level by BASMAA with a Project Management Team (PMT) overseeing its development. BASMAA Board of Directors submitted the Plan to the Executive Officer of the San Francisco Bay Regional Water Quality Control Board (Water Board) on June 30, 2017.

The MRP also requires that the Plan be implemented no later than October 2017 and that a progress report on the Plan be submitted to Water Board with the FY 2017/18 annual report. In addition, a preliminary report on the Plan must be submitted to Water Board by July 1, 2019 and a final report by July 1, 2020. While the progress report will be addressed at the countywide level with regional coordination, the BASMAA Trash Committee recommends that the preliminary and final reports be developed at the regional level and therefore is submitting this project concept.

There are three primary tasks associated with preparation and drafting of the preliminary and final reports and they are as follows:

Fiscal Year 2018-19

1. Update CEDEN Data Fields and Tables
 - a. Develop data template (spreadsheet) that is CEDEN compatible
 - b. Work with Regional Data Center (SFEI) to update CEDEN database to accept trash monitoring results/assessment data
 - c. Address other CEDEN-related tasks as identified
2. Prepare Preliminary Report
 - a. Compile monitoring data collected by the stormwater programs and/or their consultants to-date. These data include monitoring site characteristics; data generated from qualitative visual assessments conducted at probabilistic sites such

Project Concept Preliminary and Final Reports on Trash Receiving Water Monitoring Program Plan and Related Tasks

- as trash and vegetative conditions; and data generated from quantitative monitoring such as volume of trash collected.
- b. Analyze and map data on a countywide and regional basis. Prepare tables and graphs to illustrate results of appropriate statistical analyses. Provide guidance and recommended actions on any data or Quality Control issues identified during compilation or analyses. Develop maps to show geographic relationships of trash conditions at the countywide and regional levels.
 - c. Evaluate quantitative and qualitative protocols and sample frame/monitoring design and propose recommendations to protocols and/or the design if necessary.
 - d. Prepare and present first draft to Project Management Team overseeing Receiving Water Monitoring Program Plan based on sub-tasks (a – c) noted above and incorporate recommended revisions accordingly.
 - e. Prepare final draft report to be submitted to the BASMAA Board of Directors and incorporate recommended revisions accordingly.
 - f. Address other report issues as applicable.

Fiscal Year 2019-20

3. Prepare Final Report

- a. Compile monitoring data collected by the stormwater programs and/or their consultants since the data were compiled during task 2. Data types included in task 2 will be compiled.
- b. Analyze and map all data compiled on a countywide and regional basis. Prepare tables and graphs to illustrate results of appropriate statistical analyses. Provide guidance and recommended actions on any data or Quality Control issues identified during compilation or analyses. Develop maps to show geographic relationships of trash conditions at the countywide and regional levels.
- c. Evaluate quantitative and qualitative protocols and sample frame/monitoring design and propose recommendations to protocols and/or the design if necessary.
- d. Prepare and present first draft to Project Management Team overseeing Receiving Water Monitoring Program Plan based on sub-tasks (a – c) noted above and incorporate recommended revisions accordingly.
- e. Prepare final draft report to be submitted to the BASMAA Board of Directors and incorporate recommended revisions accordingly.
- f. Address other report issues as applicable.

Products:

- Task 1: Data Template, updated CEDEN database
- Task 2: One Draft and one Final Draft Preliminary Report, and other deliverables TBD by PMT.
- Task 3: One Draft and one Final Draft Final Report, and other deliverables TBD by PMT.

Project Concept Preliminary and Final Reports on Trash Receiving Water Monitoring Program Plan and Related Tasks

Product(s) to be reviewed and approved by Board of Directors:

- Final Draft Preliminary Report
- Final Draft Final Report

Schedule:

July 2018-July 2020 ongoing; specific deliverable dates subject to agreement of PMT

Cost (estimate): FY 2018-19: \$60,000 (Task 1:\$10,000; Task 2:\$50,000)
FY 2019-20: \$30,000 (Task 3)

Project partners, if any: None.

Implementer(s): Committee(s) BASMAA Trash Committee and Project Management Team overseeing the Trash Receiving Water Monitoring Program Plan.

Selection Process(es):

Executive Director Discretion Sole Source Request for Qualifications
 Request for Proposal Interview

Proposer: BASMAA Trash Committee **Date:** 5/23/18 Draft